INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/001427

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A01G 25/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A01G 25/00, B05B 15/02, B05B 1/14, B05B 15/06, F15D 1/02, F16K 1/54, F16K 3/34

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the intermational search (name of data base and, where practicable, search terms used) eKIPASS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,085,986 A(Michael Yu)	1, 2
	11 July 2000	! .
	see the whole document	
A	US 5,137,216 A(Barry N. Hanish)	1, 2
·	11 August 1992	
	see column 5, line 44 - column 6, line 28; figs. 3 - 5	
A	US 3,998,244 A(Clarence Bentley)	1,2
	21 December 1976	
	see the whole document	
A	US 3,985,336 A(Clarence Bentley)	1, 2
	12 October 1976	-,-
	see the whole document	
A	KR 20-0306609 Y1(Kim, Je-Goo)	1, 2
••	25 February 2003	, , , ,
	see page 2, line 56 - page 3, line 27; figs 2 - 4	
1	i	1

Further documents are listed in the continuation of Box C.

X See patent family annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent but published on or after the international filing date
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

14 OCTOBER 2004 (14.10.2004)

Date of mailing of the international search report

15 OCTOBER 2004 (15.10.2004)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2004/001427

•	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	US 6,085,986 Å	11.07.2000	None	·
	US 5, 137,216 A	11.08.1992	None	
	US 3,998,244 A	21.12.1976	None	
. • • • •	US 3,985,336 A	12. 10. 1976	None	
	KR 20-0306609 Y1	25.02.2003	None	